

10/666,203

CLAIMS:

1. (currently amended) A braze material for diffusion brazing of an article formed of a superalloy material, the braze material comprising a carrier and superalloy filler particles, the superalloy filler particles comprising a size less than 100 nanometers, a first portion of nano-sized particles and a second portion of micron-sized particles.
2. (withdrawn) The braze material of claim 1, further comprising the filler particles comprising a size less than 75 nanometers.
3. (withdrawn) The braze material of claim 1, further comprising the filler particles comprising a size less than 50 nanometers.
4. (withdrawn) The braze material of claim 1, further comprising the filler particles comprising a size less than 40 nanometers.
5. (currently amended) The braze material of claim 1, further comprising braze alloy particles having a melting point temperature below that of the a bulk melting temperature of the superalloy material of the micron-sized superalloy filler particles and above that of the nano-sized superalloy filler particles.
6. (currently amended) The braze material of claim 5, wherein a weight ratio of the nano-sized superalloy filler particles to the braze alloy particles-micron-sized constituents is at least 70/30.
7. (withdrawn) The braze material of claim 1, further comprising a coating of a melting point depressant material on a surface of individual filler particles.
8. (withdrawn) The braze material of claim 1, further comprising a coating of one of the group of boron and silicon on a surface of individual filler particles.

10/666,203

9. (withdrawn) The braze material of claim 1, wherein the filler particles comprise a size sufficiently small so that they exhibit a melting temperature that is less than a solution temperature of the superalloy material.

Claims 10-23 (cancelled).